

CLAIMS

What is claimed is:

1. An augmentor section comprising:
a first set of vanes; and
a second set of vanes axially displaced from said first set of vanes.
2. The augmentor section as recited in claim 1, wherein said first set of vanes and said second set of vanes are arranged in a 2-vane alternating axial stagger pattern.
3. The augmentor section as recited in claim 1, further comprising a first set of fuel exit orifices within each of said first set of vanes and a second set of fuel exit orifices within each of said second set of vanes.

4. A gas turbine engine augmentor section comprising:
 - a central cone defined along an engine axis;
 - an inner lining;
 - a first set of vanes located between said central cone and said inner liner;and
 - a second set of vanes located between said central cone and said inner liner, said second set of vane axially displaced from said first set of vanes.
5. The gas turbine engine augmentor section as recited in claim 4, wherein said first set of vanes and said second set of vanes are arranged in a 2-vane alternating axial stagger pattern.
6. The gas turbine engine augmentor section as recited in claim 4, further comprising a first set of fuel exit orifices within each of said first set of vanes and a second set of fuel exit orifices within each of said second set of vanes.

7. A method of minimizing screech within an augmentor section of a gas turbine engine comprising the step of:

locating a first and second set of vanes within the augmentor section such that the flame systems from the sets of vanes are out of phase when subjected to longitudinal velocity fluctuation.

8. A method as recited in claim 7, further comprising the steps of:
providing a first fuel jet airflow penetration from the first set of vanes; and
providing a second fuel jet airflow penetration from the second set of vanes, the second fuel jet airflow penetration greater than the first fuel jet airflow penetration.

9. A method as recited in claim 7, further comprising the step of:
axially displacing the first set of vanes from the second set of vanes.

10. A method as recited in claim 7, further comprising the step of:
axially displacing the first set of vanes upstream from the second set of vanes in an alternating pattern.